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06180566 **Image available**
DEVICE AND METHOD FOR COMPRESSION

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PUBLISHED: April 30, 1999 (19990430)
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CANON INC
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ABSTRACT

PROBLEM TO BE SOLVED: To shorten the time needed for operation and to improve the performance of DCT(discrete cosine transformation) or reverse DCT by equipping a DCT device with a transposed matrix *storage* means and an arithmetic circuit consisting of a combinational circuit for performing DCT operation without using any clocked *storage* means.
SOLUTION: The substitute memory 1118 of the DCT transformation part transform column *type* *data* into row *type* *data* so as to implement 2nd pass of two-*dimensional* discrete cosine transformation. Data from an input circuit 1126 and the substitute memory 1118 are multiplexed by a multiplexer 1124 and sent to a mathematical circuit 1122. The result of the mathematical circuit 1122 is sent to an output circuit 1120 after the 2nd pass ends. A control circuit 1116 controls a *stream* of data in the DCT transforming device. The mathematical circuit 1122 is the combinational circuit which does not have a *storage* location where an intermediate result is stored.

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OPTICAL DISK REPRODUCING DEVICE AND METHOD AND OPTICAL DISK RECORDING
DEVICE AND METHOD

PUB. NO.: 11-075160 [JP 11075160 A]
PUBLISHED: March 16, 1999 (19990316)
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ABSTRACT

PROBLEM TO BE SOLVED: To deal with plural kinds of various *type* *data* by using a sub-video pack consisting of a pack header and a data packet and adding a packet header and its following sub-*stream* ID area and packet data area to the data pack of the sub-video pack.

SOLUTION: A sub-video pack 90 includes a pack header 120 of 14 bytes, a packet header 121 of 14 bytes, a sub-*stream* ID 141 of 1 byte and a data area 142 which can *store* the sub-video data of 2019 bytes or less as a sub-video packet. Then if the header 121 includes no PTS, the header 121 has a constitution of 9 bytes and the area 142 is extended to 2024 bytes. The PTS is described to only the sub-video packet that includes the head data on every sub-video unit. Thus, it's possible to deal with plural kinds of various *type* *data*.

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Set	Items	Description
S1	111599	DIMENSION? OR 3D OR 3(W)D
S2	28817	STREAM?
S3	4031	DATA(2N)TYPE? ?
S4	261512	STORE OR STORAGE
S5	63	MULTI?(W)FILE? ?
S6	8906	TRANSACT?
S7	1	S1 AND S2 AND S3
S8	29	S2 AND S3
S9	0	S6 AND S8
S10	0	S5 AND S8
S11	2	S4 AND S8
S12	1	S11 NOT S7
S13	2	S7 OR S11 OR S12

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Set	Items	Description
S1	189976	DIMENSION? OR 3D OR 3(W)D
S2	117093	STREAM?
S3	4085	DATA(2N)TYPE? ?
S4	398685	STORE OR STORAGE
S5	131	MULTI?(W)FILE? ?
S6	7741	TRANSACT?
S7	1	S1 AND S2 AND S3
S8	131	S2 AND S3
S9	0	S6 AND S8
S10	0	S5 AND S8
S11	33	S4 AND S8
S12	33	S11 NOT S7

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